

I CLAIM:

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1. A method for delivery of a composition in the oral cavity comprising the steps of
  - a) creating, or utilizing an existing, void in one or more teeth or tooth
  - 5 modifications, and
  - b) supplying to the void the composition in a slow-release form.
2. The method of claim 1 wherein the one or more teeth are selected from the group consisting of natural teeth, implants and dentures.
3. The method of claim 1 wherein the one or more tooth modifications are selected  
10 from the group consisting of fillings, crowns, temporary crowns and root canal therapies.
4. The method of claim 3 wherein the composition is incorporated in a composite used as a filling.
5. The method of claim 3 wherein the composition is placed inside the crown.
6. The method of claim 5 wherein the crown is semi-porous.
- 15 7. The method of claim 1 wherein the composition is selected from the group consisting of flavorings, anti-bacterials, odor reducers, chemotherapeutics, radiotherapeutics, compositions to improve oral health, anesthetics, antiseptics, antimicrobials, antifungals, anti-inflammatories, antivirals, and combinations thereof.
8. The method of claim 7 wherein the flavorings are flavored oils.
- 20 9. The method of claim 7 wherein the odor reducers are selected from the group consisting of chlorine dioxide, zinc gluconate, other biocompatible zinc salts, chlorohexidine, glutaraldehyde, scents and combinations thereof.
10. The method of claim 7 wherein the chemotherapeutics are doxorubicin, vincristine, or a combination thereof.
- 25 11. The method of claim 7 wherein the radiotherapeutics are selected from the group consisting of radioactive seeds of  $^{125}\text{I}$ ,  $^{192}\text{I}$ , palladium, iridium and combinations thereof.

12. The method of claim 1 wherein the composition is selected from the group consisting of penicillins, tetracyclines, sodium fluoride, potassium nitrate, Lidocaine, iodine containing compounds, chlorhexidine, clotrimazole, Nystatin, ibuprofen and salicylates.
- 5 13. The method of claim 1 wherein the composition is used to treat malodorous breath.
14. The method of claim 1 wherein the composition is used to decrease the amount of undesirable microbes in the oral cavity.
15. The method of claim 1 wherein the composition is used to maintain the health of  
10 the oral cavity.
16. The method of claim 1 wherein the composition is used to maintain the health of a mammalian body.
17. The method of claim 1 wherein the slow release formulation is comprised of a biodegradable, biocompatible gel.
- 15 18. The method of claim 16 wherein the gel comprises hydroalkyl methyl cellulose.
19. A method for delivery of a composition in the oral cavity comprising the steps of
- a) mixing the composition in glazing material to form a glazing mixture, and
- b) low firing the glazing mixture onto a tooth surface selected from the group consisting of crowns, inlays, onlays and veneers.
- 20 20. The method of claim 19 wherein the tooth surface is roughened before being placed in contact with the glazing mixture.
21. The method of claim 19 wherein the composition is selected from the group consisting of flavorings, anti-bacterials, odor reducers, chemotherapeutics, radiotherapeutics, compositions to improve oral health, anesthetics, antiseptics,  
25 antimicrobials, antifungals, anti-inflammatories, antivirals, and combinations thereof.
22. The method of claim 21 wherein the flavorings are flavored oils.

23. The method of claim 21 wherein the odor reducers are selected from the group consisting of chlorine dioxide, zinc gluconate, other biocompatible zinc salts, chlorohexidine, glutaraldehyde, scents and combinations thereof.
24. The method of claim 21 wherein the chemotherapeutics are doxorubicin,  
5 vincristine, or a combination thereof.
25. The method of claim 21 wherein the radiotherapeutics are selected from the group consisting of radioactive seeds of <sup>125</sup>I, <sup>192</sup>I, palladium, iridium and combinations thereof.
26. The method of claim 21 wherein the composition is selected from the group  
10 consisting of penicillins, tetracyclines, sodium fluoride, potassium nitrate, Lidocaine, iodine containing compounds, chlorhexidine, clotrimazole, Nystatin, ibuprofen and salicylates.
27. The method of claim 21 wherein the composition is used to treat malodorous breath.
- 15 28. The method of claim 21 wherein the composition is used to decrease the amount of undesirable microbes in the oral cavity.
29. The method of claim 21 wherein the composition is used to maintain the health of the oral cavity.
30. The method of claim 21 wherein the composition is used to maintain the health of  
20 a mammalian body.
31. A dental device for the delivery of a composition to the oral cavity comprised of an artificial tooth or tooth modification, a void in said tooth or tooth modification, and a composition within said void, wherein the composition comprises a slow release gel and a desired compound.
- 25 32. The device of claim 31 wherein the artificial tooth is an implant.
33. The device of claim 31 wherein the tooth modification is a crown.

34. The device of claim 31 wherein the compound is selected from the group consisting of flavorings, anti-bacterials, odor reducers, chemotherapeutics, radiotherapeutics, compositions to improve oral health, anesthetics, antiseptics, antimicrobials, antifungals, anti-inflammatories, antivirals, and combinations thereof.
- 5 35. The device of claim 34 wherein the flavorings are flavored oils.
36. The device of claim 34 wherein the odor reducers are selected from the group consisting of chlorine dioxide, zinc gluconate, other biocompatible zinc salts, chlorohexidine, glutaraldehyde, scents and combinations thereof.
37. The device of claim 34 wherein the chemotherapeutics are doxorubicin,  
10 vincristine, or a combination thereof.
38. The device of claim 34 wherein the radiotherapeutics are selected from the group consisting of radioactive seeds of <sup>125</sup>I, <sup>192</sup>I, palladium, iridium and combinations thereof.
39. The device of claim 34 wherein the compound is selected from the group consisting of penicillins, tetracyclines, sodium fluoride, potassium nitrate, Lidocaine,  
15 iodine containing compounds, chlorhexidine, clotrimazole, Nystatin, ibuprofen and salicylates.
40. The device of claim 31 wherein the slow release formulation is comprised of a biodegradable, biocompatible gel.
41. The device of claim 40 wherein the gel comprises hydroxy alkyl methyl  
20 cellulose.
42. A dental device for the delivery of a composition to the oral cavity comprised of a crown or dentures, wherein said composition is incorporated in said crown or dentures in a manner that allows slow release of the composition.
43. The device of claim 42 wherein the base of the dentures is comprised of plastic,  
25 and the composition is mixed in the plastic.
44. The device of claim 42 wherein the composition is incorporated in the crown or one or more denture teeth.

45. The device of claim 42 wherein the crown is glazed and the composition is incorporated in the glaze.
46. The device of claim 42 wherein the compound is selected from the group consisting of flavorings, anti-bacterials, odor reducers, chemotherapeutics,  
5 radiotherapeutics, compositions to improve oral health, anesthetics, antiseptics, antimicrobials, antifungals, anti-inflammatories, antivirals, and combinations thereof.
47. The device of claim 46 wherein the flavorings are flavored oils.
48. The device of claim 46 wherein the odor reducers are selected from the group consisting of chlorine dioxide, zinc gluconate, other biocompatible zinc salts,  
10 chlorohexidine, glutaraldehyde, scents and combinations thereof.
49. The device of claim 46 wherein the chemotherapeutics are doxorubicin, vincristine, or a combination thereof.
50. The device of claim 46 wherein the radiotherapeutics are selected from the group consisting of radioactive seeds of  $^{125}\text{I}$ ,  $^{192}\text{I}$ , palladium, iridium and combinations thereof.
- 15 51. The device of claim 46 wherein the compound is selected from the group consisting of penicillins, tetracyclines, sodium fluoride, potassium nitrate, Lidocaine, iodine containing compounds, chlorhexidine, clotrimazole, Nystatin, ibuprofen and salicylates.